

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:**Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-018063**Date Inspected:** 28-Oct-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Xu Xian Ping**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** Orthotropic Box Girder (OBG)**Summary of Items Observed:**

On this date Caltrans Office of Structural Material (OSM) Quality Assurance (QA) Inspector, D.Sukanthan was present during the time noted above for observations relative to the work being performed.

This QA Inspector randomly observed the following work in progress:

OBG # BAY 6

This QA observed ZPMC qualified welding personnel identified as 053609 perform Flux Cored Arc Welding (FCAW) Process on weld joint BP3053-001-017. ZPMC Quality Control Personnel (QC) identified as Mr. Zheng Zhi Wei was present to monitor the welding process. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-T-2232-TC-U5-F.

This QA observed ZPMC qualified welding personnel identified as 049769 perform Shielded Metal Arc Welding (SMAW) Process on weld joint FB3169-004-025. ZPMC Quality Control Personnel (QC) identified as Mr. Zheng Zhi Wei was present to monitor the welding process. The welding parameters as measured using QC's calibrated instruments appeared to be in general compliance with WPS-B-P-2212-B-U2.

This QA inspector observed that ABF personnel perform Ultrasonic Testing (UT) on cross beam CB19 bottom panel splice weld. The bottom panel is identified as CB3003C-019. See attached pictures.

OBG # BAY 7

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## WELDING INSPECTION REPORT

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ZPMC personnel heat straightening Orthotropic Box Girder (OBG) member identified as W2-SB9-040. Distortion appeared to be caused by welding. ZPMC Quality Control (QC) inspector identified as Mr. Wang liyang was present to monitor the heat straightening process. The heat straightening appeared to comply with Heat Straightening Report HSR1 (B) number 9592.

OBG # BAY 8

ZPMC personnel heat straightening Orthotropic Box Girder (OBG) member identified as BK004A-056. Distortion appeared to be caused by welding. ZPMC Quality Control (QC) inspector identified as Mr. Fu zhi qiang was present to monitor the heat straightening process. The heat straightening appeared to comply with Heat Straightening Report HSR1 (B) number 9470.

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.



### Summary of Conversations:

As mention above

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang 150-00422372, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Sukanthan,Dhanasingh	Quality Assurance Inspector
<b>Reviewed By:</b>	Hall,Steven	QA Reviewer

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